

**DRAFT MEETING MINUTES
RESTORATION ADVISORY BOARD
NAVAL WEAPONS STATION SEAL BEACH, DETACHMENT CONCORD,
CONCORD, CALIFORNIA
SEPTEMBER 13, 2004**

These minutes reflect general issues raised, agreements reached, and action items identified at the Restoration Advisory Board (RAB) meeting for Naval Weapons Station (NWS) Seal Beach, Detachment (SBD) Concord, California. The meeting was held from 6:30 p.m. to 8:30 p.m. on September 13, 2004, at the Willow Pass Community Center in Concord, California. Agreements and action items are described by topic under Sections I through V and are summarized in Section VI. A list of participants and their affiliations is included as Attachment A, and the meeting agenda is included as Attachment B.

I. WELCOME, INTRODUCTIONS, PUBLIC COMMENT AND AGENDA APPROVAL

Welcome and Introductions

The RAB Community Co-chair, Mary Lou Williams (Concord resident), called the RAB meeting to order and initiated a round of introductions for attendees.

Margaret Wallerstein (RAB Navy Co-chair) asked for a vote on the September 2004 RAB agenda. Igor Skaredoff (Martinez resident) moved to approve the RAB agenda, and Ed McGee (Martinez resident) seconded it. The RAB approved the September 2004 agenda.

Public Comments

Ms. Williams opened the floor to public comments. No public comments were offered.

Mario Menesini (Walnut Creek resident) invited the RAB to attend the Environmental Alliance meeting? on September 20, 2004.

October 2004 RAB Agenda Approval

Ms. Wallerstein reviewed the proposed agenda for the October 2004 RAB meeting. Ray O'Brien (Bay Point resident) asked when the Navy planned to provide the RAB with a presentation on the Integrated Natural Resources Management Plan (INRMP). Ms. Wallerstein responded that the agendas for next few RAB meeting agendas are full, but the Navy will look into adding a presentation on the INRMP during 2005. Ms. Wallerstein is currently compiling the proposed RAB agendas for 2005. She agreed to distribute a handout with the proposed 2005 agendas to the RAB during the October 4, 2004, RAB meeting.

Ms. Wallerstein announced that the October 2004 RAB meeting will be held at the City of Concord Permit Center Building D. The Navy plans to provide a presentation on the Site 22 remedial investigation (RI). Ms. Wallerstein asked for the approval of the RAB on the October 2004 agenda. The RAB approved the agenda for October 4, 2004.

RAB Meeting Space

Ms. Wallerstein said that there is a possibility that the Concord Police Department Community Room will be available for the RAB on a monthly basis in 2005. The RAB could use the community room if the meetings were scheduled on the first, second, or fourth Wednesday of each month. Ms. Wallerstein

solicited feedback from the RAB to gauge interest in moving the meetings to a Wednesday. Mr. Menesini moved to approve changing the RAB meeting from the first Monday of the month to the first Wednesday of the month to enable the RAB use the Concord Police Department Community Room. Ms. Williams seconded the proposed change in the schedule for the RAB meetings.

The RAB agreed to change the schedule for the monthly meetings beginning in January 2005 to the first Wednesday of the month. The Navy will book the Concord Police Department Community Room for January through November 2005 for the first Wednesday of each month.

Action Item

1. Ms. Wallerstein will distribute a handout of proposed agenda topics for 2005 RAB meetings at the meeting on October 4, 2004.
2. The Navy will reserve the Concord Police Department Community Room for January through November 2005 on the first Wednesday of each month for the RAB.

II. JULY RAB MEETING MINUTES APPROVAL AND UNRESOLVED BUSINESS

Ms. Williams asked for comments on the RAB meeting minutes for August 9, 2004. There were no comments offered, so Mr. Skaredoff moved to approve the meeting minutes, and Mr. McGee seconded the motion. The meeting minutes were approved.

Action Items

3. The Navy will distribute the final RAB minutes for the meeting held August 9, 2004.

III. COMMITTEE REPORTS AND ANNOUNCEMENTS

RAB Co-Chair Update

Ms. Williams thanked David Griffith (City of Concord) for providing the RAB with meeting space for a study session on the Tidal Area Site 1 Landfill Closure Design. The RAB met in the City of Concord Permit Center Building D on September 8, 2004. Ms. Williams thanked all of the participants in the study session as well as the Navy for sending a consultant to review the document with the RAB.

Mr. O'Brien said that he is concerned that public comments are missing from an appendix in the Site 1 Tidal Area Record of Decision (ROD). Phillip Ramsey (U.S. Environmental Protection Agency [EPA]) said that the Navy inserted only comments made during the Tidal Area proposed plan meeting, which took place in 1999, as the Navy is required to include those comments. The Navy responded to all community comments submitted on the Tidal Area ROD, and all have been included in the Administrative Record. Mr. O'Brien said that he would prefer to see all of the community comments inserted into an appendix to the Tidal Area Site 1 ROD since it is a final document. Ms. Wallerstein agreed to confirm that regulations were followed in capturing the community comments in the appendix to the Tidal Area Site 1 ROD. The Navy will report back to the RAB during the meeting in October

2004.

Action Item

4. Ms. Wallerstein will confirm that regulations were followed in capturing the community comments in the Tidal Area Site 1 ROD appendix. The Navy will report back to the RAB during the meeting in October 2004.

Ms. Williams announced that there is a new RAB applicant. Ms. Williams introduced Julie Nelson (Pittsburg resident) and provided a copy of Ms. Nelson's application to the RAB for review. The RAB voted and approved Ms. Nelson's application.

IV. REMEDIAL PROJECT MANAGERS (RPM) UPDATE

Department of Toxic Substance Control (DTSC) Update

Jim Pinasco (DTSC) reported that DTSC attended the September RPM meeting and submitted comments on the Site 30 RI addendum and the draft final RI for Solid Waste Management Units (SWMU) 2, 5, 7, and 18.

EPA Update

Mr. Ramsey said that EPA has submitted comments on the draft final RI for SWMU Sites 2, 5, 7, and 18. EPA provided some minor comments on the document, which include a recommendation for additional groundwater sampling at the site and better graphical presentation of groundwater contours. EPA suggested that the Navy install three new monitoring wells to further delineate the boundaries of the contaminant plume in groundwater at the site.

Mr. Ramsey also said that EPA provided comments on the Site 30 RI addendum, which recommended additional sampling to characterize the site for polychlorinated biphenyls.

On September 10, 2004, EPA sent the Navy a Notice of Denial letter on the draft final site management plan (SMP). The Navy and EPA have 21 days to resolve the two EPA comments. The first of the two comments regards a 17-month delay on the Tidal Area RI. Mr. Ramsey said that EPA would accept a delay on the RI of no longer than about 6 months. The second unresolved comment is on the schedule for the Site 22 feasibility study (FS). EPA is recommending that the Navy assess whether arsenic is present in Seal Creek. Mr. Glaser asked when the Navy plans to develop the Site 22 FS. Mr. Ramsey said that the Site 22 FS is planned for 2007, but the Navy is currently reevaluating the entire schedule for Site 22 given recent analytical results. Mr. Glaser noted that the community has shared with the Navy its strong preference for characterizing Seal Creek. Ms. Wallerstein said that the Navy is reviewing the Mount Diablo/Seal Creek watershed map and drainage information for the site to evaluate whether sampling in Seal Creek is necessary.

San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) Update

A written SFBRWQCB RPM update was distributed to the RAB and is included in Attachment C.

Navy Update

Ms. Wallerstein reviewed the Navy's RPM update (Attachment C). Mr. O'Brien asked when the repairs to the Tidal Gate would be completed. Ms. Wallerstein said that the Navy is assessing the damage to the

gate and is procuring a contractor to do the work. The Navy is aiming to complete repairs in November 2004.

Soil Sampling Results at Site 22

Joanna Canepa (Tetra Tech EMI [TtEMI]) presented the soil sampling results for Site 22, which is included as Attachment D. Mr. O'Brien said he believed not enough samples were collected to characterize Site 22. Ms. Canepa explained that the maps distributed at the meeting do not show some of the historical data from the site; all of the data will be compiled and presented in the Site 22 RI, which is being developed. Mr. Glaser asked about the Navy's plans for the elevated level of arsenic in soil. Ms. Canepa responded that the Navy is preparing an RI for the site, including a human and ecological risk assessment.

Mr. Skaredoff said that he is concerned that the Navy has not collected sufficient groundwater samples at Site 22. Ms. Canepa said that arsenic was not detected in any of the groundwater samples collected from the site. She added that arsenic is elevated in surface soils only, which indicates that arsenic is tightly bound to surface soils and is not leaching to groundwater.

Mr. Menesini said that he would like to see the Navy collect soil samples off the property to make sure that arsenic does not migrate off site. Ms. Canepa said that the Navy is currently evaluating the data and is receiving input from the regulatory agencies on that issue.

Agency for Toxic Substances and Disease Registry (ATSDR) Update

Libby Vianu (ATSDR) presented an update on the ATSDR assessment being conducting at Site 22 (Attachment E). Mr. O'Brien asked whether ATSDR had recommended to the Navy to collect samples off site. Ms. Vianu responded that ATSDR is not currently recommending off site sampling at Site 22. Ms. Wallerstein added that the Navy wanted to present the data as soon as they were available. The Navy is currently evaluating the next steps for Site 22.

Beth Byrne (Concord resident) asked if the controlled burns at Site 22 transport arsenic. Ms. Canepa said that the grass samples collected at Site 22 did not contain arsenic at detectable levels. It is unlikely that arsenic is being transported through controlled burns at the site; however, that potential transport pathway will be evaluated in the remedial investigation.

Mr. O'Brien asked what site uses were being considered in the human health risk assessment for Site 22. Mr. Bernhardt said that the Navy will evaluate both residential and industrial land use in the RI.

Mr. Glaser asked whether the cattle at Site 22 are affected by the arsenic in soil and if the owner has been notified of the analytical results. Ms. Wallerstein said that all of the results for soil samples at Site 22 were provided to the NWS SBD Concord base manager to distribute to the owner of the cattle. The cattle are moved to different portions of the base at different times during the year and the same cows are not necessarily present from year to year. The rancher runs a calving operation and the calves are present on site for only about 6 months before the owner sells them. The ecological risk assessment will include an evaluation of risk to grazing cattle at the site.

Mr. Byrne recommended that the Navy collect samples off site to characterize arsenic in soil beyond the Navy fenceline.

Ms. Vianu said that ATSDR is compiling all of its recommendations in a report, which will be distributed in the fall of 2004.

Ms. Wallerstein said that the Navy would collect samples off site in residential back yards contiguous to Site 22 to evaluate whether arsenic is elevated in soils that are off Navy property but could have been impacted by Navy herbicide spraying. She noted that the Navy would prepare a plan for the sampling that would include those areas potentially impacted by Navy activities, and that it is possible that some of the private property owners would not want their property sampled.

V. LANDFILL CLOSURE DESIGN TIDAL AREA SITE 1 PRESENTATION

Steve Delhomme (TtEMI) presented an overview of the Tidal Area Site 1 landfill closure design, which is included as Attachment F.

Mr. Ramsey said that the landfill closure design was distributed to the agencies and the community for review at the same time. EPA is reviewing the document and has not yet provided comments to the Navy. Mr. O'Brien said that he is concerned that the RAB does not have a chance to see agency comments on the landfill closure design before the community comment period ends. Mr. Delhomme said that there is also a review period for the next version of the design (the 95 percent complete submittal), so this is not the last opportunity for the RAB to provide comments.

Mr. Menesini requested that the Navy look into whether gas is present at the Tidal Area Landfill. Ms. Canepa responded that landfill gas has not been characterized to date, but the Navy is preparing a sampling and analysis plan (SAP) to characterize landfill gas at the site; the draft SAP is planned for submittal by the end of September 2004.

VI. NEXT MEETING AND ACTION ITEMS

The next RAB meeting will occur from 6:30 to 8:30 p.m. on October 4, 2004, at the City of Concord Permit Center Building D.

The following action items and agreements were generated during the RAB meeting on September 13, 2004:

#	Action Item	Target Date for Completion	Completion Date (or Status)
1	Ms. Wallerstein will distribute a handout on proposed agenda topics for RAB meetings in 2005 at the October 4, 2004 meeting.	10/4/04	
2	The Navy will reserve the Concord Police Department Community Room for January through November 2005 on the first Wednesday of the month for the monthly RAB meetings.	10/4/04	Completed on 9/14/04
3	The Navy will distribute the final RAB meeting minutes for the meeting held August 9, 2004.	10/4/04	

#	Action Item	Target Date for Completion	Completion Date (or Status)
4	Ms. Wallerstein will confirm that regulations were followed in capturing the community comments in the appendix for the Tidal Area Site 1 ROD. The Navy will report back to the RAB during the meeting in October 2004.	10/4/04	

ATTACHMENT A
ATTENDEES AND AFFILIATIONS
RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD, CALIFORNIA
SEPTEMBER 13, 2004
(One Page)

**ATTENDEES AND AFFILIATIONS
RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD, CALIFORNIA**

SEPTEMBER 13, 2004

<u>Name</u>	<u>Affiliation</u>	<u>Telephone</u>
Lisa Anich	Friends of Mount Diablo Creek	(925) 689-2642
Todd Bernhardt	TtEMI	(415) 222-8251
Beth Byrne	Concord Resident	(925) 686-4815
Harry Byrne	Concord Resident	(925) 686-4815
Joanna Canepa	TtEMI	(415) 222-8362
Steve Delhomme	TtEMI	(832) 251-5163
Gregory Glaser*	Concord Resident	(925) 363-5570
David Griffith*	City of Concord	(925) 671-3427
Carolyn Hunter	TtEMI	(415) 222-8297
Ed McGee*	Martinez Resident	(925) 372-7043
Mario Menesini*	Walnut Creek Resident	(925) 935-1168
Julie Nelson*	Concord Resident	(925) 252-1982
Ray O'Brien*	Bay Point Resident	(415) 385-9220
Jim Pinasco	DTSC	(916) 255-3719
Phillip Ramsey	EPA	(415) 972-3006
Igor Skaredoff*	Martinez Resident	(925) 229-1371
Jim Toland	Director — California Resource Center District	(925) 689-6085
Michelle Trotter	DTSC	(916) 255-6441
Libby Vianu	ATSDR	(415) 947-4319
Margaret Wallerstein	Navy RAB Co-chair	(562) 626-7838
Mary Lou Williams*	RAB Community Co-chair	(925) 685-1415

Notes:

ATSDR	Agency for Toxic Substances and Disease Registry
DTSC	Department for Toxic Substances Control
EFA West	Naval Facilities Engineering Command, Engineering Field Activity West
EPA	U.S. Environmental Protection Agency
RAB	Restoration Advisory Board
SFBRWQCB	San Francisco Bay Regional Water Quality Control Board
TtEMI	Tetra Tech EM Inc.
*	RAB Member

ATTACHMENT B

AGENDA

**RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD, CALIFORNIA**

**SEPTEMBER 13, 2004
(One Page)**

AGENDA

NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD RESTORATION ADVISORY BOARD MEETING

Monday, September 13, 2004

6:30 p.m. – 8:30 p.m.

**Willow Pass Community Center
2748 E. Olivera Rd.
Concord, CA 94519**

- | | |
|--------------------|--|
| 6:30 – 6:40 | Call to Order <ul style="list-style-type: none">➤ Welcome➤ Introductions➤ Public Comments➤ October Agenda Approval Lead: Community Co-chair |
| 6:40 – 6:50 | Approval of August 9, 2004 Meeting Minutes
Review Unresolved Business
Lead: Navy Co-chair |
| 6:50 - 7:30 | Committee Reports/Announcements <ul style="list-style-type: none">➤ RAB Report➤ Remedial Project Managers' Update (Navy/EPA/DTSC/RWQCB) |
| 7:30 – 7:40 | Break |
| 7:40 – 8:30 | Site 1 Landfill Cover Draft Remedial Design |
| 8:30 | Adjourn |

ATTACHMENT C

**NAVY AND SAN FRANCISCO BAY REGIONAL WATER QUALITY CONTROL BOARD
REMEDIAL PROJECT MANAGER'S UPDATE
RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD, CALIFORNIA**

**SEPTEMBER 13, 2004
(Four Pages)**



Terry Tamm
Secretary for
Environmental
Protection

California Regional Water Quality Control Board San Francisco Bay Region

Internet Address: <http://www.swrcb.ca.gov>
1515 Clay Street, Suite 1400, Oakland, California, 94612
Phone (510) 622-2300 • FAX (510) 622-2460



Arnold Schwarzenegger
Governor

CNWS RAB Meeting Update

September 3rd 2004

Laurent Meillier RWQCB

I Meetings Attended

8/19/04: UST RPM Meeting.

- The Navy provided updates to various UST sites. The Navy agreed to not request UST closure reports from the RWQCB for sites with no known impacts to surface/ ground waters and soils (i.e. the tank did not leak). Instead the Navy will request tank closure to the County (Contra Costa). Water Board staff confirmed that non-leaking USTs should not be uploaded into GeoTracker however the information should be made available into the UST database.
- The team discussed the general infrastructure of the Christenbury Rd. pipeline and its connections to various buildings. Water Board staff urged EFA West to coordinate with San Diego PWC to get the remaining length of the pipeline removed and disposed accordingly.
- Water Board staff confirmed that the Port of Chicago Auto Shop USTs were not used for water storage per Water District records.
- Addressing potential extensive petroleum (TPH) contamination in soils and possibly groundwater under Building A-16 was discussed. Water Board staff recommended placing monitoring wells downgradient and delineating the impacts with angled borings.

- ➔ Removal action of soils at IA-17 was presented. This effort will be lead under the purview of PWC San Diego. It was later determined that PWC will remove all contaminated soils delineated with Water Board depth and site use scenario specific criteria. Contamination might be found in soils > 10 feet below ground surface.
- ➔ As an information item the naphthalene cancer slope factor has recently been changed which consequently decreased the drinking water ESL to 17 ppb (formerly 170 ppb): <http://www.dhs.ca.gov/ps/ddwem/chemicals/AL/actionlevels.htm>. Naphthalene is a PAH (Polycyclic Aromatic Hydrocarbon) ranging between 3.1 and 5.8 % by weight in diesel and gasoline fuels. This change in the cancer slope factor could influence the extent of cleanup to soils and groundwater.
- ➔ Water Board staff was informed that the Navy has found some funding and created a site accordingly to address TPH contamination at the RASS 3 (Litigation Area).

❖ *September 2nd 2004: Plenary RPM Meeting*

- ➔ Water Board staff inquired on the funding status to get the tidal gate repaired at Otter Slough.
- ➔ Site 22 preliminary data for soils and groundwater arsenic concentrations were discussed by the team. Water Board staff expressed concerns as to public exposure to arsenic in neighboring properties.
- ➔ Water Board staff supported the excavation and disposal off sites of wastes found at site 30. Water Board staff is pleased that the Navy is considering this a remedial action coupled with possible subsequent tidal wetland restoration.
- ➔ Water Board Staff expressed regulatory position on the Site 17 ROD. The Navy (PWC San Diego) has been contacted with what staff considers data gaps at the site which focus mainly on TPH and past disposal practice issues.

II Documents Reviewed/ Correspondence Outputted

- ❏ Case closure letter UST Site E-111
- ❏ Comments on the Draft Final Remedial Investigation at the SWMU
- ❏ Comments on the Data Gaps Technical Evaluation Report for the Litigation Area.
- ❏ Comments on the Remedial Investigation Tidal Area Sites 2, 9 and 11.
- ❏ E-Comments on the Site 31 Scope of Work.

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ATTACHMENT D
SOIL SAMPLING RESULTS INSTALLATION RESTORATION
SITE 22 PRESENTATION
RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD, CALIFORNIA

SEPTEMBER 13, 2004
(4 Pages)

**Soil Sampling Results
Installation Restoration Site 22
Naval Weapons Station Seal Beach,
Detachment Concord**

September 13, 2004



Installation Restoration Site 22



- Over 530 acres; contains 120 storage magazines, formerly used to store munitions; built mid-1940s
- Site was initially focused Building 7SH5, primarily used for missile wing and fin repair; site expanded to evaluate extent of elevated arsenic in surface soils
- Field Sampling conducted in June/July 2004 to evaluate the distribution of arsenic in soils throughout the magazine area for the remedial investigation
 - Collection of over 54 soil samples (arsenic and pesticide/herbicide analysis)
 - 3 plant tissue samples (arsenic analysis)
 - Groundwater samples from 4 monitoring wells and one groundwater grab sample



Aerial Photograph



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9/13/04

3



Site Photographs



9/13/04

4



Sampling Photographs



9/13/04

5



Sampling Results



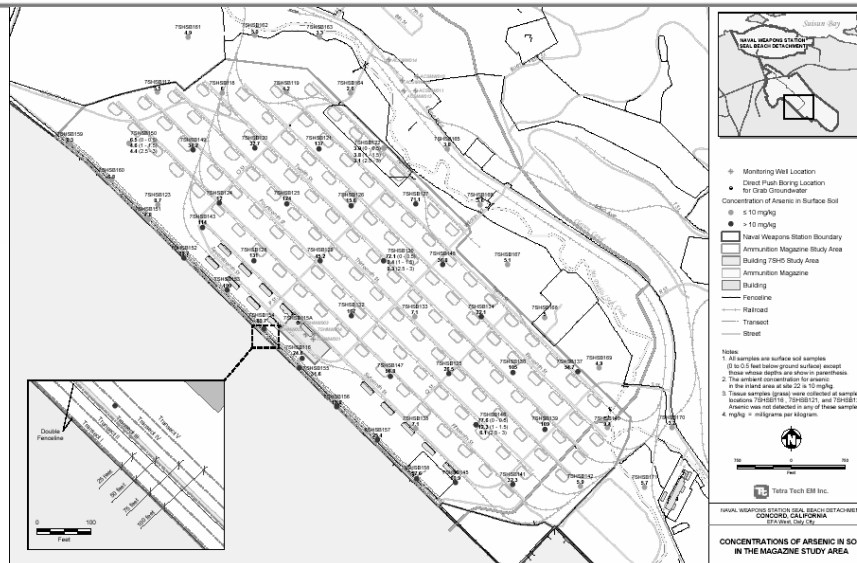
- Arsenic not detected in groundwater samples or plant tissue samples
- Arsenic in surface soils elevated above background levels (10 mg/kg) throughout magazine area (concentrations ranged from 2.6 to 199 mg/kg)
- Source of arsenic is historic application of sodium arsenate in Magazine Area as an herbicide
- Arsenic not elevated outside boundaries of magazine area

9/13/04

6



Sample Locations and Results



9/13/04

7



Next Steps



- **Prepare Revised Draft Remedial Investigation (RI) to evaluate potential human health and ecological risk associated with site chemicals of concern**
 - Draft planned for November 18, 2004
- **Continue to coordinate with the Agency for Toxic Substances and Disease Registry (ATSDR) who is currently preparing a public health assessment for Concord**

9/13/04

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ATTACHMENT E

**AGENCY FOR TOXIC SUBSTANCES AND DISEASE REGISTRY PRESENTATION
RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD, CALIFORNIA**

**SEPTEMBER 13, 2004
(6 Pages)**



Agency for Toxic Substances and Disease Registry

<http://www.atsdr.cdc.gov>

ATSDR

Who is ATSDR

- A federal public health agency and part of the Centers for Disease Control (CDC) based in Atlanta, Georgia
- Evaluates human health risks from hazardous chemicals
- Uses the best science
- Provides health information to prevent harmful exposures
- Makes recommendations for health, but cannot enforce them
- No medical diagnosis or treatment
- Generally does not do environmental testing
- Develops and provides reliable, understandable information for affected communities and stakeholders

ATSDR

***ATSDR was asked to address
three questions:***

1. Is there a need to sample neighboring yards for arsenic contamination?
2. Are residents or children attending the neighboring high school being exposed to harmful levels of arsenic when dust blows from the base during the annual tilling operation?
3. Are the results of the soil sampling appropriate for preparing a Human Health Risk Assessment for community exposure to the arsenic?

ATSDR

***ATSDR Based the Evaluation on
Several Different Sources of
Information:***

1. Results of soil and vegetation sampling conducted by the Navy at the Magazine Study Area
2. Available information about the past land use and application of arsenical pesticides by the Navy
3. Scientific literature that described the characteristics of arsenic in the environment and potential health effects of people exposed to similar amounts of arsenic as residents living next to the Magazine Study Area

ATSDR

Available Background Information; Provided by the Navy:

1. Prior to acquisition by the Navy, the Magazine Study Area and residential area were used for agriculture
 - Possible use of arsenical pesticides by previous owner
2. The Navy applied arsenical pesticides within base boundaries at the Magazine Study Area
3. Surface water from the Magazine Study Area does not run-off onto the neighboring yards

ATSDR

ATSDR Conclusions:

- Incidental exposure to arsenic at the concentrations measured in the Magazine Study Area would not be expected to harm health.
- Arsenic levels measured on-base are not a health concern and no information has been identified to indicate that the Navy applied pesticides off-base. As a result, there is no strong evidence that additional soil testing is necessary to protect public health.
- The existing sampling results are adequate for use in evaluating the potential health impacts of the surrounding community to potential exposures to arsenic in soil.

ATSDR

As a Prudent Public Health Action ATSDR Recommends:

- The Navy use dust control measures when planning and conducting tilling operations.
 - Possibly by ensuring favorable winds and soil moisture content during tilling.

ATSDR

ATSDR Recommendations:

Residents may reduce their exposure to arsenic and other naturally occurring contaminants in soils by following basic good hygiene.

- wear gloves while working with soils
- do not eat, drink or smoke while working with soils
- wash and peel home grown produce before consumption
- wash hands after playing in the yard or with any soils
- remove work and play shoes before entering your home
- damp mop floors and wipe down counters, tables and window ledges regularly
- for children, try to prevent soil ingestion (eating) of dirt
- maintaining vegetative ground cover (e.g., grass) will significantly reduce exposures to all soil contaminants.

ATSDR

Health Consultation

A health consultation describing the evaluation process is being developed and will be released shortly.

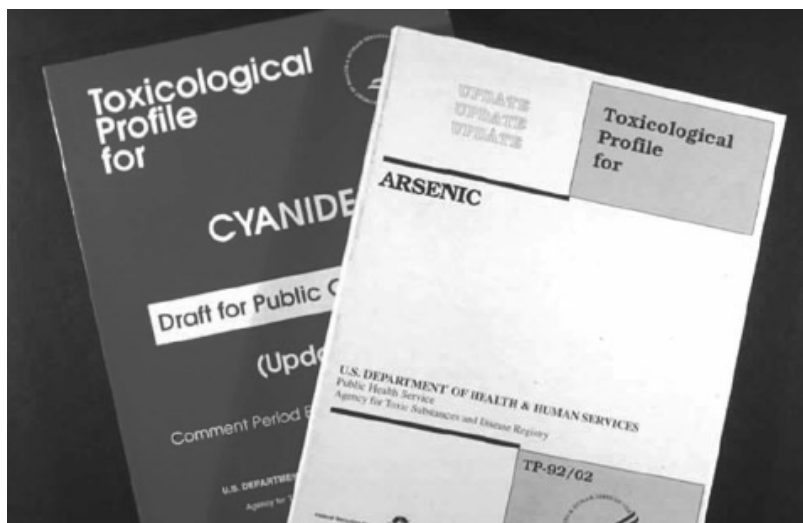
- Targeted, shorter documents
- Developed for a specific public health issue related to human exposure.
- Usually one or two chemicals and/or pathways of exposure

ATSDR

Public Health Assessment

- More comprehensive documents, cover multiple chemicals and multiple pathways and historical exposures
- Required at EPA National Priorities List (NPL) Sites

ATSDR



ATSDR

ATSDR Contact Information

Regional Staff in San Francisco

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ATSDR

ATTACHMENT F

**LANDFILL CLOSURE DESIGN TIDAL AREA SITE 1 PRESENTATION
RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD, CALIFORNIA**

**SEPTEMBER 13, 2004
(12 Pages)**

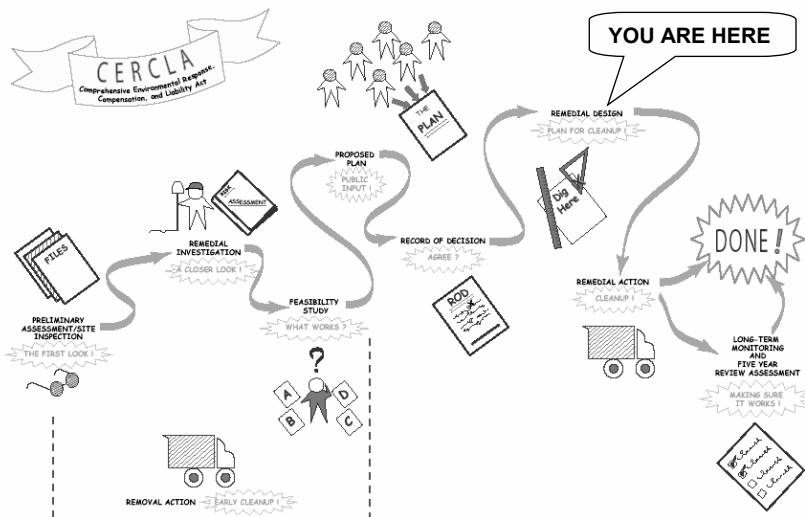
**Landfill Closure Design
Tidal Area Site 1
Naval Weapons Station
Seal Beach, Detachment Concord**



September 13, 2004



**Site 1 Landfill Closure Design
CERCLA Process**





Preview of Key Information



- **ROD signed by EPA, DTSC, and a Concurrence Letter Submitted by SFBRWQCB**
- **Landfill Cap Design**
 - **Initial Draft Design (75 percent) has been completed**
 - RAB and Agencies are currently reviewing
 - Comments are due 9/20/04
 - **Pre-Final Design (95 percent) due 11/19/04**
 - **Final Design (100 Percent) due 3/4/05**
- **Landfill Cap Construction Currently Planned for Next Summer (5/20/05-11/4/05)**
- **30 Years of Groundwater Monitoring and Periodic Cap Inspection & Maintenance**



Site 1 Landfill Closure Design Remedial Design Process



- **The design is developed to meet the requirements of the ROD**
- **Initial Draft Design (75 percent)**
- **Pre-Final Design (95 percent)**
- **Final Design (100 percent)**
- **Bid Package – Contracting for Award**



Record of Decision – Selected Remedy

- Groundwater not directly covered under this ROD pending further investigation
- ROD addresses direct contact, erosion and stormwater infiltration into waste
- Soil cap meeting Title 27 prescriptive cap requirements (1×10^{-6} cm/sec)
- Land use controls
- Surface controls for stormwater
- Landfill gas venting and monitoring
- Biotic Barrier Considerations

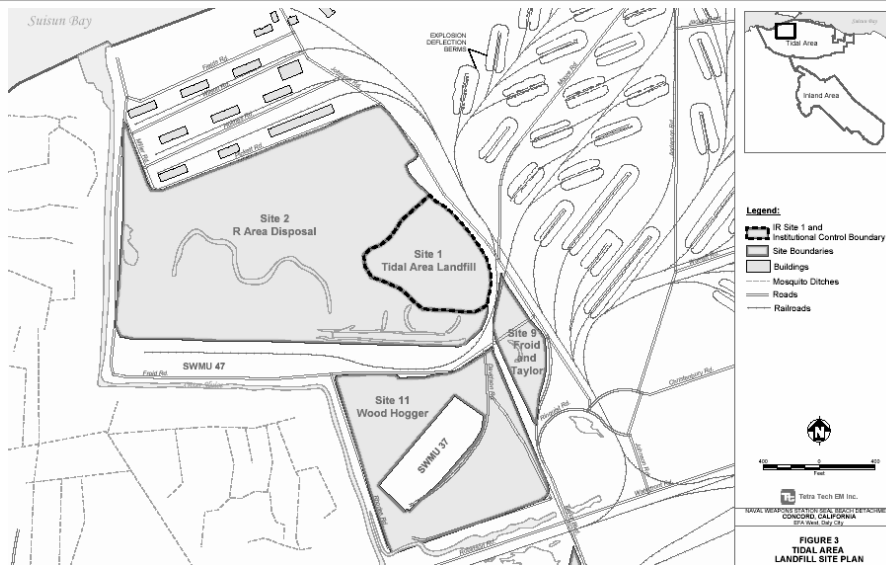


Other Physical Considerations

- Soil balance
- Handling large debris on the surface
- Landfill toe construction in Bay Mud
- Endangered species considerations
 - Potential presence of endangered salt marsh harvest mouse and California clapper rail; Navy to consult with USFWS to protect special status species during construction
- Controlling tidal waters near the toe of the landfill during construction



Site 1 Landfill Closure Design Tidal Area Landfill Location



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Landfill Closure Design ~ Site 1 ~ NWSSBD Concord

September 13, 2004



Site 1 Landfill Closure Design Present Landfill Condition



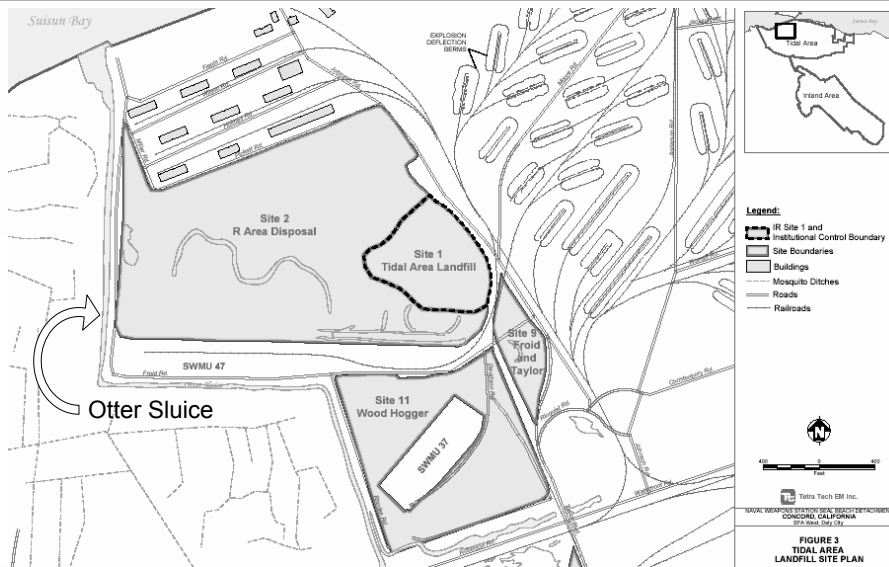
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Landfill Closure Design ~ Site 1 ~ NWSSBD Concord

September 13, 2004



Site 1 Landfill Closure Design Otter Sluice



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Landfill Closure Design ~ Site 1 ~ NWSSBD Concord

September 13, 2004



Site 1 Landfill Closure Design Otter Sluice



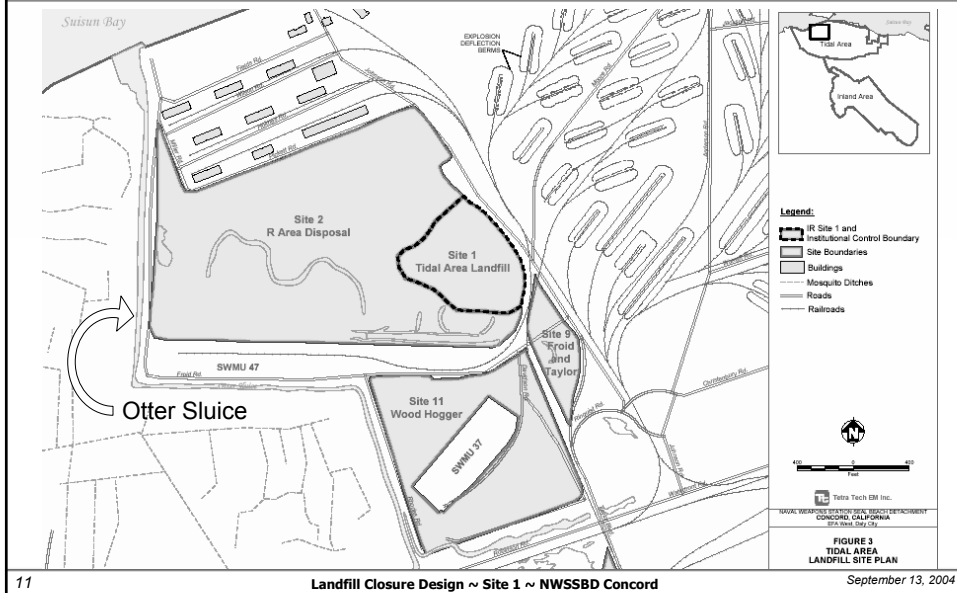
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Landfill Closure Design ~ Site 1 ~ NWSSBD Concord

September 13, 2004



Site 1 Landfill Closure Design Otter Sluice



Other Site 1 Activities Concurrent with Design



➤ Otter Sluice Tide Gate Rehabilitation

- Currently in design/contracting process for getting tide gate repaired by early in the fiscal year (Oct/Nov 2004).

➤ Landfill Gas Sampling and Analysis Plan

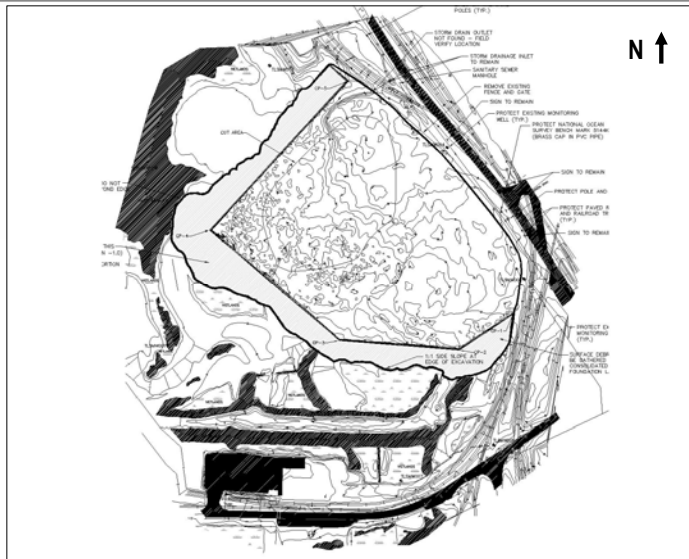
- Draft Sampling and Analysis Plan (SAP) planned for submittal on 9/24/04
- Comments due on 11/22/04

➤ Groundwater Investigation

- Draft SAP for groundwater investigation submitted 7/23/04
- Comments due on 9/21/04



Site 1 Landfill Closure Design Removal Area



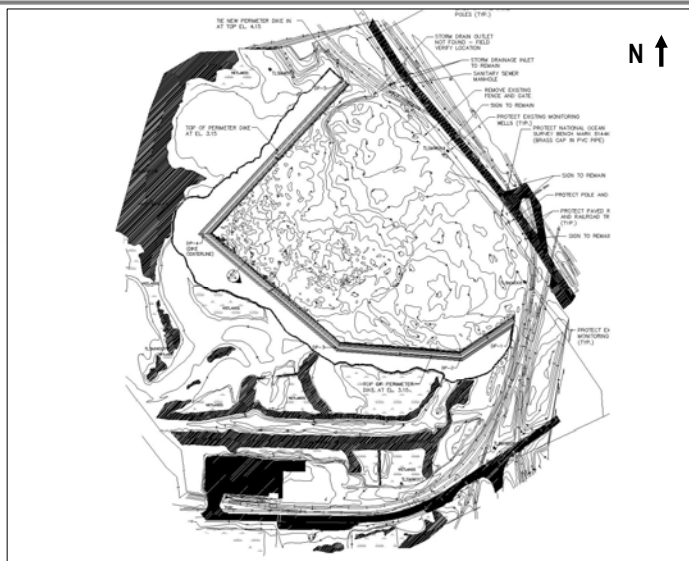
13

Landfill Closure Design ~ Site 1 ~ NWSSBD Concord

September 13, 2004



Site 1 Landfill Closure Design Perimeter Dike



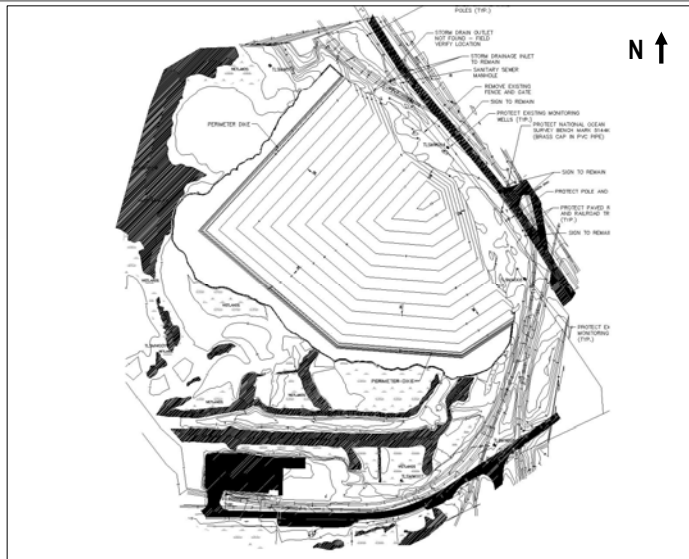
14

Landfill Closure Design ~ Site 1 ~ NWSSBD Concord

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Site 1 Landfill Closure Design Regraded Waste Subgrade



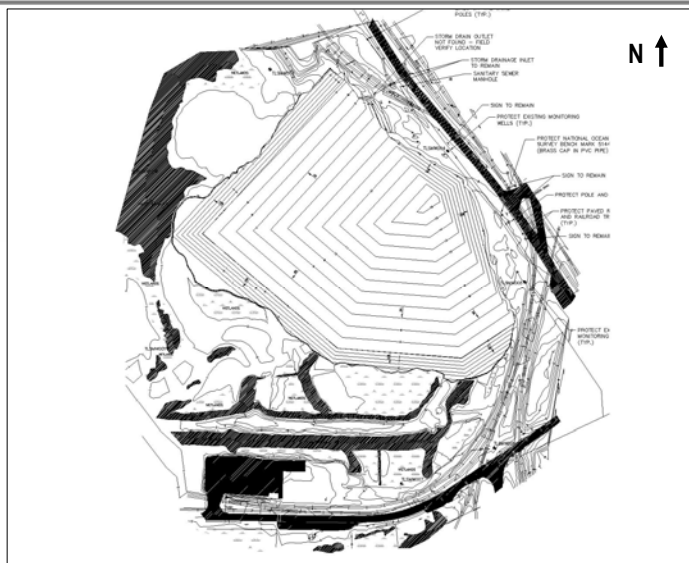
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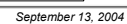
Site 1 Landfill Closure Design Final Cover

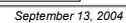
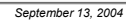


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Landfill Closure Design ~ Site 1 ~ NWSSBD Concord

September 13, 2004







Design Review and Implementation Schedule



- **7/22/004** **Initial Draft Design (75 Percent)**
- **9/20/04** **Comments on Initial Draft Design Due**
- **11/19/04** **Pre-Final Design (95 Percent)**
- **3/4/05** **Final Design (100 Percent)**
- **5/20/05-11/4/05** **Remedial Action**



Summary



- **ROD signed by EPA, DTSC, and a concurrence letter submitted by SFBRWQCB**
- **Landfill Cap Design**
 - **Initial Draft Design (75 percent) has been completed**
 - RAB and Agencies are currently reviewing
 - Comments are due 9/20/04
 - **Pre-Final Design (95 Percent) due 11/19/04**
 - **Final Design (100 Percent) due 3/4/05**
- **Landfill Cap Construction Next Summer (5/20/05-11/4/05)**
- **30 Years of Groundwater Monitoring and Periodic Cap Inspection**



QUESTIONS

